

VOROPAYEV, IVAN STEPANOVICH  
PHASE I BOOK EXPLOITATION

550

Voropayev, Ivan Stepanovich

Kompleksnaya mekhanizatsiya malogo liteynogo tsekha (Total Mechanization of Small Foundries) 2d ed., enl. Moscow, Mashgiz, 1958. 108 p. 6,000 copies printed.

Ed.: Yemel'yanov, L.V., Engineer; Ed. of Publishing House: Stepanchenko, N.S.; Tech. Ed.: Gerasimova, Ye. S.; Managing Ed. for literature of heavy machine building (Mashgiz): Golovin, S. Ya., Engineer.

PURPOSE: This book is intended for engineers and technicians in the field of casting.

COVERAGE: The book describes the total mechanization of a foundry at a fairly small plant engaged in medium-lot production. The

Card 1/4

Total Mechanization of Small Foundries	550
Organization of planning	25
Layout of the reconstructed and mechanized foundry	27
Preparation for total mechanization	44
Construction work and installation	46
The foundry after mechanization	52
Experience gained in installation work and in actual operation of a mechanized foundry	53
II. Organization of Investment-casting Operations Under Conditions of Medium-lot Production	64
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Card 3/4

Total Mechanization of Small Foundries	550
Preparation of the master model of the article	71
Preparation of molds for obtaining dispensable patterns	71
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Assembly of patterns into sets	85
Application of refractory coating	86
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Drying the ceramic coating	96
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Layout of the precision-casting section	103

AVAILABLE: Library of Congress

Card 4/4

GO/jmr  
8-20-58

VOROPAYEV, I.S.

Results of the introduction of a system of complete utilization  
of raw materials. Gidroliz. i lesokhim. prom. 14 no. 1:23-24  
'61. (MIRA 14:1)

1. Leningradskiy gidroliznyy zavod.  
(Wood—Chemistry)

VOROPAYEV, M.; IZRAYETSKIY, L.

New developments in the dispatch system in airplane repair work.  
Grazhd. av. 12 no. 9: 31-32 S '55. (MIRA 10:7)  
(Airplanes--Maintenance and repair)

VOROPAYEVA, M.G. [Voropaieva, M.H.]

Concentration of inorganic componets in the gastric juice during  
periodical secretion and mechanical stimulation of the intestinal  
mucosa. Nauk zap. Kyiv. un. 16 no.18:95-99 '57. (MIRA 13:2)  
(GASTRIC JUICE)

VOROPAYEV, M. M.

VOROPAYEV, M. M. - "Investigation of the Mechanism of a Novocaine Blockade by Means of In Vivo Microscopy." Sub 12 Jun 52, Acad Med Sci USSR. (Dissertation for the Degree of Candidate in Medical Sciences).

SO: Vechernaya Moskva January-December 1952

VOROPAYEV, M.M.

VOROPAYEV, M.M.

Effect of a novocaine block on the reactivity of the nervous system. Trudy AMN SSSR 24 no.2:121-129 '53. (MLRA 7:7)

(PROCAINE, effects,

\*on nerves)

(NERVES, effect of drugs on,

\*procaine)



VOROPAYEV, M. M.

bed in de-

EXCERPTA MEDICA Sec 9 Vol 13/1 Surgery Jan 59

350. CARDIOTRAST IN THE STUDY OF THE BRONCHIAL TREE (Russian text) - Voropaev M. M. and Mazaev P. N. - EKSPER. KHIR. 1958, 1(15-19) illus. 2

The action of cardiostast, in varying concentrations, on the bronchial tree, has been studied on animals under experimental conditions. In order to decrease the irritant action that the dye exerts on the bronchial mucosa and to impart to its solution sufficient viscosity that would help to fill the bronchial tree more slowly and evenly the authors experimented with various methods of anaesthesia and added glucose to the dye. In clinical practice the authors used 70% solution of cardiostast, taking 20 ml. and adding to it 30 g. of glucose powder. Heated to body temperature cardiostast mixes well with glucose, forming a viscid fluid. With thorough anaesthesia it is possible to fill the bronchial tree with the contrast dye, under fluoroscopy control, and to take X-ray films. An hour later no dye is found in the bronchi and cavities as revealed by the control X-ray film. Rapid elimination of the contrast dye from the tracheo-bronchial system enables, when necessary, to perform bilateral bronchography at short notice and to shorten the period between diagnosis and surgery.

(IX, 14, 15\*)

VOROPAYEV, M.M.; MAZAYEV, P.N.; FIRSOVA, P.P.

Angiopneumography in lung cancer. Sov.med. 22 no.2:49-52 F '58.  
(MIRA 11:4)

1. Iz 2-go khirurgicheskogo (zav. - prof. O.A.Alipov) i rentgeno-  
logicheskogo (zav. - prof. P.N.Mazayev) otdeleniy Insituta  
khirurgii imeni A.V.Vishnevskogo (dir. - deystvitel'nyy chlen  
Akademii meditsinskikh nauk SSSR prof. A.A.Vishnevskiy) Akademii  
meditsinskikh nauk SSSR.

(LUNG NEOPLASMS, diag.

angiopneumography (Rus))

(ANGIOGRAPHY, in various dis.

lung cancer, angiopneumography (Rus))

MAZAYEV, P.N.; VOROPAYEV, M.M.; DONETSKIY, D.A.; PYL'TSOV, I.M.

Application of a pneumatic syringe in aortography. Eksp.  
khir. 4 no.2:42-47 Mr-Apr '59. (MIRA 12:5)

1. Iz Instituta khirurgii imeni A.V.Vishnevskogo (dir. -  
deystvitel'nyy chlen AMN SSSR prof. A.A.Vishnevskiy) AMN  
SSSR.

(ANGIOGRAPHY,  
aortography, pneumatic syringe (Rus))  
(SYRINGES,  
pneumatic syringe for aortography (Rus))

VOROPAYEV, M.M.; ALIPOV, G.V.; MAZAYEV, P.N.

Selective angiopneumography in certain surgical diseases of the lungs. Eksp.khir. 4 no.3:17-20 My-Je '59. (MIRA 12:8)

1. Iz Instituta khirurgii imeni A.V.Vishnevskogo (dir. - deyatvitel'nyy chlen AMN SSSR prof.A.A.Vishnevskiy) AMN SSSR.

(LUNG DISEASES, diag.

angiopneumography (Rus))

(LUNG NEOPLASMS, diag.

same)

(ANGIOGRAPHY

angiopneumography in diag. of lung dis. & cancer (Rus))

MAZAYEV, P.N.; VOROPAYEV, M.M.; KOPEYKO, I.P.; ALIPOV, G.V.; VOLYNSKIY, Yu.D.

Sounding and angiopneumography (general and selective) in pulmonary tuberculosis. Eksper. khir. 4 no.6:26-29 N-D '59. (MIRA 14:6)

1. Iz Instituta khirurgii imeni A.V.Vishnevskogo (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A.Vishnevskiy) AMN SSSR i Moskovskogo nauchno-issledovatel'skogo instituta tuberkuleza (dir. V.F.Chernyshev) Ministerstva zdavookhraneniya RSFSR.  
(TUBERCULOSIS) (LUNGS—RADIOGRAPHY)

VOROPAYEV, M.M.; DMITRIYEVA, P.Ye.

Case of partial defect of the pericardium. Eksper. khir. 5 no. 2:55-  
56 Mr-Apr '60. (MIRA 14:1)

(PERICARDIUM--ABNORMALITIES AND DEFORMITIES)

VOROPAYEV, M.M., kand.med.nauk

Significance of angiopneumography in the diagnosis of various  
surgical diseases of the lungs. *Sov. med.* 24 no. 10:28-32  
O '60. (MIRA 13:12)

1. Iz vtorogo khirurgicheskogo (zav. - prof. G.V. Alipov) i  
rentgenologicheskogo (zav. - prof. P.N. Mazayev) otdeleniya  
Instituta khirurgii imeni A.V. Vishnevskogo (dir. - deystvitel'nyy  
chlen AMN SSSR prof. A.A. Vishnevskiy) AMN SSSR.  
(LUNGS—DISEASES) (ANGIOGRAPHY)

BURMENKO, Ye. G.; SMELOVSKIY, S. I.; VOROPAYEV, M. M.; MAZAYEV, P. N.;  
VOLYNSKIY, Yu. D.

Angiopneumography in mitral stenosis. Eksp. khir. no. 3:30-36  
'62. (MIRA 15:7)

1. Iz Instituta khirurgii imeni A. V. Vishnevskogo (dir. -  
deystvitel'nyy chlen AMN SSSR prof. A. A. Vishnevskiy) AMN SSSR.

(MITRAL VALVE—DISEASES) (ANGIOGRAPHY)  
(LUNGS—RADIOGRAPHY)



VOROPAYEV, M. M.; SARKISOV, D. S.; NIKANOROV, A. I.

Morphological pulmonary changes and the surgical technic for  
[cases of] foreign bodies of several years duration. Khirurgiia  
(MIRA 15:6)  
38 no.5:28-33 My '62.

1. Iz 2-go khirurgicheskogo otdeleniya (zav. - kandidat meditsinskikh nauk M. M. Voropayev) i otdela patologicheskoy anatomii (zav. - doktor meditsinskikh nauk D. S. Sarkisov) Instituta khirurgii imeni A. V. Vishnevskogo (dir. - deystvitel'nyy chlen AMN SSSR prof. A. A. Vishnevskiy) AMN SSSR.

(LUNGS--FOREIGN BODIES)

SARKISOV, D.S.; VOROPAYEV, M.M.; MAZAYEV, P.N.; ADAMYAN, A.A. (Moskva)

Late results of healed gunshot wounds of the lungs. Arkh. pat.  
26 no.8:21-27 '64 (MIRA 18:2)

1. Institut khirurgii imeni Vishnevskogo (dir. - deystvitel'nyy  
chlen AMN SSSR prof. A.A. Vishnevskiy) AMN SSSR.

VOROPAYEV, M.M.; SARKISOV, D.S.; MAZAYEV, P.N.; ADAMYAN, A.A.;  
AVERBAKH, M.M., red.

[Late sequelae of blind gunshot wounds of the lungs]  
Otdalennye posledstviia slepykh ognestrel'nykh ranenii  
legkikh. Moskva, Meditsina, 1965. 140 p.  
(MIRA 18:9)

MAZAYEV, Pavel Nikolayevich; VOROPAYEV, Mefodiy Mikhaylovich;  
KOPEYKO, Ivan Petrovich; PISAREVSKIY, A.A., red. --

[Angiopulmonography in the clinical aspects of surgical  
diseases of the lungs] Angiopul'monografiia v klinike  
khirurgicheskikh zabolevanii legkikh. Moskva, Meditsina,  
1965. 259 p. (MIRA 18:3)

MAZAYEV, P.N.; MOLOKANOV, K.P.; KONCHALOVSKAYA, N.M.; VOROPAYEV, M.M.;  
VOLYNSKIY, Yu.D.; KARMAZIN, V.P.; GLOTOVA, K.V.; SAMSONOVA, N.F.

Hemodynamics of the pulmonary circulation in silicosis patients  
based on data of angiopulmonography and catheterization of the  
right cardiac cavities and pulmonary artery. Vest.rent.1 rad. 40  
no.5:3-8 S-0 '65. (MIRA 18:12)

1. Institut gigiyeny truda i profzabolevaniy AMN SSSR i Institut  
khirurgii imeni A.V.Vishnevskogo AMN SSSR, Moskva.

L 1072-66 EWA(k)/FED/EWT(1)/EEC(k)-2/T/EWP(k)/EWA(m)-2/EWA(h) SCTB/IJP(c) WG

ACCESSION NR: AP5016184

UR/0051/65/018/006/1086/1088  
533.97

AUTHOR: Voropayev, N. D.; Orayevskiy, A. N.

TITLE: Effect of saturation on generation of higher harmonics

SOURCE: Optika i spektroskopiya, v. 18, no. 6, 1965, 1086-1088

TOPIC TAGS: laser, nonlinear effect, laser optics, harmonic analysis, harmonic generation

ABSTRACT: The authors consider the effect of saturation on the generation of higher harmonics in pulsed lasers, based on the model of a two-level system, assuming that the frequency of the external radiation is close to the interlevel transition frequency of the system. The equations of polarization for this model are given and solved for the field

$$\delta = \delta_0 \cos \omega_0 t + \delta_2 \cos (3\omega_0 t + \alpha).$$

This solution is used for qualitative evaluation of the polarization amplitude at the tripled frequency as a function of the amplitude of the external field. In view of the linearity of the Maxwell equations, the field amplitude for the third

Card 1/2

L 1972-66

ACCESSION NR: AP5016104

harmonic will have this same relationship to the amplitude of the external field.  
The transformation ratio from the first to the third harmonic  $\kappa = \frac{\delta_3}{\delta_0}$

which gives the efficiency of the crystal, will be proportional to  $\delta_1$  in small fields, and independent of the external field in large fields due to saturation. The efficiency of frequency transformation becomes constant in large fields when there is an absolute increase in the intensity of the third harmonic with an increase in the amplitude of the stimulating radiation. Orig. art. has: 7 formulas.

ASSOCIATION: none

SUBMITTED: 31Dec64

NO REF SOV: 003

ENCL: 00

OTHER: 002

SUB CODE: EC, OP

Card 2/2 DP

L 00979-66 EJA(k)/P. 'EET(1)/EEC(k)-2/T/EEC(b)-2/EWP(k)/EJA(m)-2/EJA(h) SGTB/IJP(c)  
 UR/0141/65/008/002/0409/0411 20

ACCESSION NR: AP5014515

AUTHOR: Voropayev, N.D.; Orayevskiy, A.N. 44

TITLE: Modes in a laser in the presence of an absorbing impurity 42  
 40  
 B

SOURCE: IVUZ. Radiofizika, v. 8, no. 2, 1965, 409-411 25, 44

TOPIC TAGS: laser action, laser mode, laser, laser medium, stimulated emission, population inversion

ABSTRACT: The system of equations describing the fields in the cavity and the active medium of a laser, obtained by one of the authors earlier (Orayevskiy, Trudy fizicheskogo instituta im. P. N. Lebedeva v. 21, 3, 1963), is supplemented to take into account the presence of an absorbing impurity in the medium. Estimates show that the modified system of equations is nearly linear and can be solved by the small-parameter method. The condition under which lasing action can occur, namely that the power emitted by the active particles exceed the absorbed power, is derived. A numerical example is given. The results can be extended to the case when the line width and the reciprocal of the particle lifetime at the level are not equal. The principle can be used to develop shutter systems for tandem-connected lasers. Orig. art. has: 10 formulas.

Card 1/2



L 00979-66

ACCESSION NR: AP5014515

ASSOCIATION: Fizicheskiy institut im. P.N. Lebedeva AN SSSR (Physics Institute,  
AN SSSR)

SUBMITTED: 13 Jul 64

ENCL: 00

SUB CODE: EC

NO REF SOV: 003

OTHER: 000

Card 2/2

ANDRIANOV, Viktor Nikolayevich, prof.; BYSTRITSKIY, D.N.; VOROPAYEV, M.I.;  
DRUZHININA, N.A.; MISHARINA, Ye.A.; NIKONOV, L.V.; NIKITINA, V.M.,  
red.; PROKOP'YEVA, L.N., tekhn.red.

[Practical studies of electric machinery in laboratories] Labora-  
tornno-prakticheskie zaniatiia po elektricheskim mashinam. Moskva,  
Gos.izd-vo sel'khoz.lit-ry, 1960. 250 p. (MIRA 13:6)  
(Electric machinery--Study and teaching)

VOROPAYEV, N.I., inzh.; DRUZHININA, N.A.

Pulse regulation of the angular velocity of asynchronous  
motors. Mekh. i elek. sots. sel'khoz. 20 no.3:45-46 '62.  
(MIRA 15:7)

1. Moskovskaya sel'skokhozyaystvennaya akademiya imeni  
K.A. Timiryazeva.

(Electric driving)

VOROPAYEV, N.I., assistant; DRUZHININA, N.A., assistant

Equipment for measuring the angle  $\delta$  of a synchronous machine.  
Izv. TSKHA no. 4:233-235 '62. (MIRA 15:12)  
(Electric machinery, Synchronous)  
(Electric measurements)

~~VOROPAYEV, T.S.~~

Atrioventricular valve apparatus in a normal state and in mitral stenosis [with summary in English, p.158] Vest.khir. 77 no.7:46-57  
Jl '56. (MLRA 9:10)

1. Iz kafedry operativnoy khirurgii (nach. - professor A.N.Maksimov) Voenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova.  
(MITRAL STENOSIS, pathol.  
pathol.anat.)

VOROPAYEV, V. (g.Volzhskiy, Volgogradskoy obl.)

Device for attaching transistors. Radio no.5:51 My '62.  
(MIRA 15:5)

(transistors)

VOROPAYEV, V. A. Cand Tech Sci-- (diss) "Investigation of the Processes  
for Oxidizing Phosphorus and Carbon During Mining Pig Irons in Appropriate  
Martens Furnaces," Dnepropetrovsk, 1960, 17 pp, 100 copies (Chair of  
Metallurgical Steel of the Dnepropetrovsk Metallurgical Institute)  
(KL, 47/60, 102)

VOROPAYEV, V. A., YEFEMOV, V. A. and ALIMOV, A. G.

"Measure According to Reduction of Boiling Metal Ingots to Molds" p. 130,  
Trudy Instituta Chernoy Metallurgii, Vol. 9, 1955.



VOROPAYEV, V.A., assistant

Results of surgery in repated cesarean section. Sbor. trud. Kursk.  
gos. med. inst. no. 3:144-148 '58. (MIRA 14:3)

1. Iz kliniki akusherstva i ginekologii (zav. - prof. A.G. Butylin)  
Kurskogo gosudarstvennogo meditsinskogo instituta.  
(CESAREAN SECTION)

VOROPAYEV, V.I.; ZVORYKIN, V.I.; SMIRNOV, V.G.

Dynamic methods of extracting casing pipe from burnt-out  
areas of underground gas producers. Trudy VNIIPodzemnaga  
no.12:138-150 '64. (MIRA 18:9)

1. Nauchno-issledovatel'skiy institut osnovaniy i podzemnykh  
sooruzheniy Gosstroya SSSR; Moskovskaya vyssheye tekhnicheskoye  
uchilishche Im. Baumana i Vsesoyuznyy nauchno-issledovatel'skiy  
institut podzemnoy gasifikatsii ugley.

L 00925-66 ENT(d)/T

ACCESSION NR: AP5021617

UR/0286/65/000/013/0095/0095  
621.-567.2

AUTHOR: Livshits, G. A.; Voropayev, V. I.

TITLE: Hydraulic damper. Class 47, No. 172578

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 13, 1965, 95

TOPIC TAGS: hydraulic damper, worm gear drive, vibration damping

ABSTRACT: An Author Certificate has been issued for a hydraulic damper consisting of an internal conical surface and an external conical surface, with a gap between them being filled with a liquid (see Fig. 1 of the Enclosure). One of these surfaces is capable of radial motion for damping radial vibration. To prevent critical speeds in systems with several degrees of freedom through a change in the damping factor, the other part is adjustable in an axial direction, thus changing the liquid-filled gap. To move the part axially, the part is threaded to a worm-gear-driven ring incapable of axial motion. Orig. art. has: 1 figure. [LB]

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya (Central Scientific Research Institute of Technology and Machine Building)

Card 1/3

L 00925-66

ACCESSION NR: AP5021617

SUBMITTED: 19Feb64

ENCL: 01

SUB CODE: IE, ME

NO REF SOV: 000

OTHER: 000

ATD PRESS: 4077

Card 2/3

L 00925-66

ACCESSION NR: AP5021617

ENCLOSURE: 01

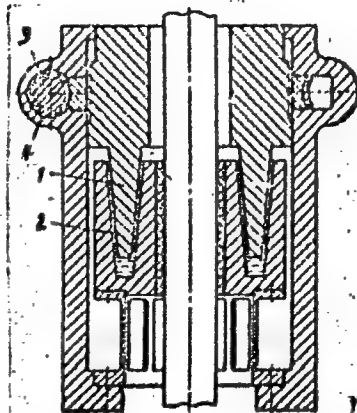


Fig. 1. Hydraulic damper

- 1 - Conical surface; 2 - gap;
- 3 - worm-gear-driven ring;
- 4 - worm gear.

Card 3/3

DP

VOROPAYEV, Vasilii Ivanovich; LAPIDUS, M.A., red.; ZUBRILINA, Z.P., tekhn.  
red.

[How collective farms improve their organization and wage system]  
Kak kolkhozy sovershenstvuiut organizatsiiu i oplatu truda.  
Moskva, Gos. izd-vo sel'khoz. lit-ry, 1957. 62 p. (MIRA 11:4)  
(Collective farms) (Wages)

VOROPAYEV, Vasilii Ivanovich; BELICHENKO, Petr Paramonovich;  
ZAVERNIYAYEVA, L.V., red.; PONOMAREVA, A.A., tekhn. red.

[Supplementary wages on collective farms]Dopolnitel'naya  
oplata truda v kolkhozakh. Moskva, Ekonomizdat, 1962. 178 p.  
(MIRA 15:10)

(Collective farms--Income distribution)

VOROPAYEV, V.I.; BELICHENKO, P.F.; MURATOV, Kh.I., red.; AVDEYEVA,  
V.A., tekhn. red.

[If there are feeds there will be meat and milk] Budut korma -  
budet miaso i moloko. Moskva, Sovetskaia Rossiia, 1962. 238 p.  
(Truzhenikam sela ob intensivnoi sisteme zemledeliia, no.3)  
(MIRA 16:5)

(Stock and stockbreeding)



BELICHENKO, Petr Paramonovich; VOROPAYEV, Vasilii Ivanovich;  
SHULEYKIN, P.A., red.

[The cost of a centner of produce] Sebestoimost' tsent-  
nera produktsii. Moskva, Izd-vo "Znanie," 1964. 109 p.  
(Narodnyi universitet kul'tury: Sel'skokhoziaistvennyi  
fakul'tet, no.6) (MIRA 17:7)

VORONOV, M.A.; KHORUZHENKO, M.V.; KARASEV, Ye.A.; BELYY, V.A.;  
LIVSHITS, G.A.; VOROPAYEV, V.I.; GONSKIY, G.V.; MEL'NICHENKO,  
V.P.; MOLCHANOV, M.A.; GLYBIN, B.V.; NAVAGIN, Yu.S.; RAKOYED, A.I.;  
PETRIKOV, V.G.

Soviet inventions in the machinery industry. Vest.mashinostr.  
46 no.1:85-86 Ja '66. (MIRA 19:1)

*VOROPAYEV, Ye.*

VOROPAYEV, Ye.

Work combined with study. Mast. ugl. 4 no. 8:13 Ag'55. (MIRA 8:10)

1. Gornyy master shakhty "Novo-Mushketovo" Stalinsloy oblasti  
(Donets Basin--Coal mining machinery)

ACCESSION NR: AP4012181

S/0191/64/000/002/0003/0006

AUTHORS: Abkin, A. D.; Auer, A. L.; Breger, A. Kh.; Vaynshteyn, B. I.; Voropayev, Yu. V.; Gol'din, V. A.; Gromov, V. F.; Osipov, V. B.; Sy\*rkus, N. P.; Ushakov, V. D.; Khomikovskiy, P. M.; Tsingister, V. A.; Ohikin, Yu. A.

TITLE: Radiation polymerization of ethylene in enlarged laboratory apparatus.

SOURCE: Plasticheskiye massy\*, no. 2, 1964, 3-6

TOPIC TAGS: ethylene, radiation polymerization, reactor design, reactor surface area, reaction rate, polymer yield, reactor temperature field

ABSTRACT: Radiation polymerization of ethylene was conducted in laboratory reactors of 1-2 liter capacity (fig. 1 & 2). Based on tolerances admitted in this work, it was found that the temperature field can be calculated with sufficient accuracy. Comparison of reaction rates and yield of ethylene polymer shows that these factors are independent of the specific surface of the reaction space. Thus

Card 1/4

ACCESSION NR: AP4012181

commercial scale apparatus can be designed by estimating the process rate and yield dependence on pressure, temperature and dosage rate without concern for specific surface area of the reactor.  
Orig. art. has: 1 Table and 5 Figures

ASSOCIATION: None

SUBMITTED: CO

DATE ACQ: 26Feb64

ENCL: 02

SUB CODE: MA

NR REF SOV: 005

OTHER: 003

Card

2/K2

MARTYNOVA, L.Ye.; VOROPAYEVA, A.S.

Manual on the manufacture of heavy decorative fabrics ("Multiple shuttle loom equipped with a Jacquard unit for manufacturing heavy decorative fabrics" by G.G. Kvek. Reviewed by L.E. Martynova, A.S. Voropaeva). Tekst. prom. 18 no.6:66 Je '58. (MIRA 11:?)  
(Looms) (Jacquard weaving) (Kvek, G.G.)

VOROPAYEV, V.; D'YAKOV, A.

Meeting on work organization and remuneration on collective  
farms. Vop.ekon. no.5:141-144 My '57. (MLRA 10:7)  
(Farm management) (Wages)

VOROPAYEVA, Anastasiya Vasil'yevna; PODKOVSHCHIKOVA, Yelana Ivanovna;  
SMIRNOVA, K.M., red.; BELEN'KAYA, I.Ye., tekhn. red.

[Dynamic series; textbook] Dinamicheskie riady; uchebnoe poso-  
bie. Minsk, Izd-vo M-va vysshego, srednego spetsial'nogo i  
professional'nogo obrazovaniia BSSR, 1961. 22 p. (MIRA 15:1)  
(Statistics)



KOROBKOV, V.S.; VOROPAYEVA, A.V.; FEL'DMAN, I.Kh.

Absorption spectra of some thiopyridones and pyridyl sulfides.  
Zhur.ob.khim. 31 no.9:3136-3140 S '61. (MIRA 14:9)

1. Leningradskiy khimiko-farmatsevticheskiy inatitut.  
(Pyridone--Spectra) (Pyridine--Spectra)

FEL'DMAN, I.Kh.; VOROPAYEVA, A.V.; RUNINOVICH, L.D.

Oxidation of p-nitrotoluene up to p-nitrobenzoic acid. Trudy  
Len. khim.-farm. inst. no.14:29-30 '62 (MIRA 17:2)

FEL'DMAN, I. Kh.; VOROPAYEVA, A. V.

Syntheses in the pyridine series. Part 2: Alkylation of 2-  
and 4-mercaptopyridines with haloalkylnitriles. Zhur. ob. khim.  
33 no.1:269-273 '63. (MIRA 16:1)

1. Leningradskiy khimiko-farmatsevticheskiy institut.

(Pyridine) (Alkylation)

FEL'DMAN, I. Kh.; VOROPAYEVA, A.V.

Syntheses in the pyridine series. Part 5: Nucleophilic addition of thiohydones to  $\alpha,\beta$ -unsaturated compounds. Zhur. ob. khim. 34 no. 5:1547-1548 My '64. (MIRA 17:7)

1. Leningradskiy khimiko-farmatsevticheskiy institut.

VOROPAYEVA, A.V.; CHIBILYAYEV, Kh.Sh.

Syntheses in the pyridine series. Part 6: Addition of  
thiopyridones to  $\alpha,\beta$ -unsaturated compounds. Zhur. ob. khim.  
34 no. 5:1548-1550 My '64. (MIRA 18:7)

1. Leningradskiy khimiko-farmatsevticheskiy institut.

VOROPAYEVA, P.; PROZOROV, I.

Let's make use of production potentialities. Muk.-elev.prom. 21  
no.10:30 0 '55. (MIRA 9:1)

1.Mel'nitsa no.12 v Moskve.  
(Maykep--Fleur mills)

~~YCHOPAYEVA, K.L.~~, kand. istor. nauk (Leningrad).

A document of immense importance. Nauka i zhizn' 25 no.1:46-52  
Ja '58. (MIRA 11:3)

(Church and state in Russia)

VOROPAYEVA, L.I.

Computing progressive premium wage scales for workers of the clothing industry. Leg.prom. 14 no.4:4-7 Ap '54. (MLRA 7:6)

1. Nachal'nik otдела truda i zarabotnoy platy Moskovskogo gorodskogo upravleniya promyshlennykh tovarov shirokogo potrebleniya.  
(Clothing industry)



VOROPAYEVA, N.A. ; ROMENSKIY, N.V.

Microanatomical characteristics of the grain of certain  
types of wheat of the southern Ukraine. Izv.vys.uchob.zav.;  
pishch.tekh. no.3:3-10 '59. (MIRA 12:12)

1. Odesskiy tekhnologicheskii institut imeni I.V.Stalina.  
Kafedra biokhimi zerna i zernovedeniya.  
(Ukraine--Wheat)

VOROPAYEVA, N.A.; DUDKIN, M.S.

Anatomical structure of the flower pellicles of oat grain. Izv.  
vys.ucheb.zav.; pishch.tekh. no.1:17-22 '60. (MIRA 13:6)

1. Kafedra biokhimii zerna i zernovedeniya i Kafedra organicheskoy  
khimii Odesskogo tekhnologicheskogo instituta imeni I.V. Stalina.  
(Oat)

ROMENSKIY, N.V.; TORZHINSKAYA, L.R.; VOROPAYEVA, N.A.

Biochemical characteristics of wheat grown from seeds affected  
by shield bugs. Izv.vys.ucheb.zav.; pishch.tekh. 2:11-13 '62.  
(MIRA 15:5)

1. Odesskiy tekhnologicheskii institut imeni Lomonosova, kafedra  
biokhimii i zernovedeniya.

(Wheat) (Eurygasters)

PANTYUKHINA, Ye.L.; KONDRAT'YEVA, Ye.V.; VOROPAYEVA, O.G.

Radioresistance of some epiphytic micro-organisms of grapes and  
pomegranate. Uzb. biol. zhur. 8 no.4:10-13 '64. (MIRA 18:7)

1. Institut yadernoy fiziki AN UzbSSR.

*VOROPAYEVA, S.D.*

FROLOVA, M.A.; VOROPAYEVA, S.D.

Effect of experimental neuroses on the course of recurrent typhus  
in mice. Zhur.vys.nerv.delat. 4 no.6:862-868 N-D '54. (MLRA 8:7)

1. Kafedra mikrobiologii 1-20 Moskovskogo meditsinskogo instituta.  
(RELAPSING FEVER, experimental,  
eff. of CNS disord. caused by conditioned reflexes)  
(CENTRAL NERVOUS SYSTEM, diseases,  
exper. disord. caused by conditioned reflex, eff. on  
relapsing fever)  
(REFLEX, CONDITIONED,  
disord. of CNS, eff. on exper. relapsing fever)

VCROPAYEVA, S. D.

"Investigation of the Penicillin Content in the Organs When It Is Introduced Into Animals." Sub 29 Aug 51, First Moscow Order of Lenin Medical Inst.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55.

COUNTRY : USSR  
 CATEGORY : Microbiology  
 ABS. JOUR. : Ref Zhur-Biologiya, No.4, 1959, No. 14305  
 AUTHOR : Lebedeva, M.N.; Voropayeva, S.D.  
 INST. :  
 TITLE : The Problem of Drug Resistance of Microorga-  
 nisms.  
 ORIG. PUB. : Zh. mikrobiol., epidem'iol. i immunitet  
 1957, No. 11, 26-33  
 ABSTRACT : A summary is given of a paper devoted to the  
 investigations of the Department of Microbi-  
 ology I of the First Moscow "Order of Lenin"  
Medical Institute in the area of adaptation  
of organisms to sulfonamides and antibiotics.  
 The authors concluded that the primary sen-  
 sitivity of organisms to drug substances and  
 their adaptive capacity depends on the degree  
 of biochemical activity of the microorganisms.  
 The better the cell resists the effect of the

CARD: 1/3

COUNTRY  
... CATEGORY

ABS. JOUR.

AUTHOR  
INST.

No. 14805

TITLE

ORIG. PUB.

ABSTRACT ; destructive agent or adapts to it, the more developed systems of enzymes it possesses. There was not noted any relation between the changes developing in the cell as a result of adaptation and the character of the drug substance. Only the intensity of these changes and the rate of their development were altered. Development of drug-resistant forms of organisms was considered a general biological phenomenon of adaptation of the organism to

CARD:

2/3



COUNTRY :  
CATEGORY :

ABS. JOUR. :

AUTHOR :  
INST. :

Wb, 14805

TITLE :

ORIG. PUB. :

ABSTRACT : factors of the external environment which  
were harmful for them. -- N.S. Pevzner

CARD: 3/3

VOROPAYEVA, S.D.

Studies on the prophylactic and therapeutic effect of bicillin in experimental staphylococcal infection. Zhur.mikrobiol.epid. i immun. 29 no.7:36-40 J1 '58 (MIRA 11:8)

1. Iz kafedry mikrobiologii 1-go Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

(PENICILLIN, rel. cpds.

benzathine penicillin G, eff. on exper. Micrococcus infect. (Rus))

(MICROCOCCAL INFECTIONS, experimental  
eff. of benzathine penicillin G. (Rus))

5(4) 5.4600

66180

AUTHORS: Voropayeva, T. N., Deryagin, B. V., SOV/20-128-5-34/67  
Corresponding Member, AS USSR, Kabanov, B. N.

TITLE: An Investigation of the Interaction of Crossed Polarized Metallic Filaments in Electrolyte Solutions for the Modeling of Coagulation Phenomena and Measurement of the Zero-charge Potential and the Constant of the van der Waals Forces

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 5, pp 981-984 (USSR)

ABSTRACT: Direct experiments (Ref 1) and the theory of the durability of lyophobic colloids indicate that repulsive forces act between charged surfaces in electrolyte solutions which, at distances of the order of ion sheaths, may be stronger than molecular attractive forces. In order to bring two crossed filaments into direct electric contact, a certain energy threshold  $N_m$  is to be surpassed. This process may easily be seen from the abrupt drop of electric resistance between the two filaments as soon as contact has been established. Such measurements were made by the authors by means of platinum filaments  $300\mu$  thick (Fig 2). One filament was pivoted, loaded with a weight whose angle of rotation

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An Investigation of the Interaction of Crossed Polarized SOV/20-128-5-34/67  
Metallic Filaments in Electrolyte Solutions for the Modeling of Coagulation  
Phenomena and Measurement of the Zero-charge Potential and the Constant of the  
van der Waals Forces

was recorded on a photoelectric relay by means of a mirror. With the help of a motor and mechanical gears the other filament was shifted slowly and continuously toward the first filament. The wires were placed in a hermetically sealed vessel which was filled with the electrolyte to be investigated. A circuit diagram in figure 3 demonstrates the manner in which the two wires are charged to a certain potential. The article further gives a detailed description of the cleaning of the wires and the vessel as well as of the polarization of the wires. As soon as the first wire had sufficiently approached, the second wire began to turn aside by rotation. A galvanometer indicated the passage of the energy threshold and the establishment of contact. The angle of rotation of the first wire at that instant was a measure of the amount of  $N_m$ . The latter was measured at various potentials in KCl solutions of a concentration of  $10^{-3} N$ ,  $10^{-2} N$ , and  $10^{-1} N$ . Results are given in figure 4. At the potential  $0.2 \pm 0.02 \text{ v } N_m$  passes through a minimum the ordinate of which is independent of

Card 2/3

66180

An Investigation of the Interaction of Crossed Polarized SOV/20-128-5-34/67  
Metallic Filaments in Electrolyte Solutions for the Modeling of Coagulation  
Phenomena and Measurement of the Zero-charge Potential and the Constant of the  
van der Waals Forces

the concentration. The constant of molecular attraction was  
computed with the help of a formula deduced by the second-mentioned  
author (Ref 3) for the action of hydrophobe, curved surfaces in  
electrolytic solutions:  $A = 6.6 \cdot 10^{-12}$  erg for an electrolyte  
concentration of  $10^{-5}$  mol/l, and  $A = 7.3 \cdot 10^{-12}$  erg for a concentra-  
tion of  $10^{-2}$  mol/l. The theoretical dependence of  $N_m$  on the

potential is illustrated in figure 4. The deviation of the  
experimental curves indicates the presence of neglected forces of  
a third kind. The value  $0.2 \pm 0.02$  v corresponds to the platinum  
zero charge. The method suggested is therefore suited also for  
measuring metal zero charges. In conclusion, mention is made of  
an article by A. N. Frumkin (Ref 6) on electrostatic repulsion of  
films. There are 4 figures and 8 references, 7 of which are Soviet.

Card 3/3

ASSOCIATION: Institut elektrokhimii Akademii nauk SSSR (Institute of  
Electrochemistry of the Academy of Sciences, USSR) and Institut fizi-  
cheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry of  
the Academy of Sciences, USSR)

SUBMITTED: June 30, 1959

4

LEBEDEVA, Mariya Nikolayevna; VOROPAYEVA, Svetlana Dmitriyevna;  
BELIKOV, P.F., red.; ZUYEVA, N.K., tekhn.red.

[Resistance of microorganisms to drugs] Lekarsvennaia  
ustoiichivost' mikroorganizmov. Moskva, Gos.izd-vo med.lit-ry  
Medgiz, 1960. 180 p. (MIRA 14:3)  
(BACTERIA, EFFECT OF DRUGS ON)

VOROPAYEVA, S.D.; PROLOVA, M.A. (Moskva)

Effect of the functional state of the nervous system on the  
therapeutic effect of synthomycin on dysentery in mice. Pat.fiziol.i  
eksp.terap. 4 no.2:44-47 M<sub>1</sub>-Ap '60. (MIRA 14:5)

1. Iz kafedry mikrobiologii (zav. - prof. M.N.Lebedeva) I Moskovskogo  
ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.  
(CHLOROMYCETIN) (DYSENTERY) (NEUROSES)

VCROPAYEVA, S.D.; GEL'GOR, V.I.; GERMANOV, A.B.

Increase in sensitivity to penicillin in resistant bacteria.  
Antibiotiki 6 no.12:1120-1123 D '61. (MLHA 15:2)

1. Kafedra mikrobiologii (zav. - prof. M.N.Lebedeva) I Moskovskogo  
ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.  
(PENICILLIN)



VOROPAYEVA, S.D.; GEL'GOR, V.I.; LUNACHARSKAYA, T.V.

Mechanism of the development of staphylococcal drug resistance.  
Antibiotiki 8 no.5:456-460 My'63 (MIRA 17:3)

1. Kafedra mikrobiologii (zav. -- prof. M.N. Lebedeva) i Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

VOROPAY-VA, S.D.; MOGILEVSKAYA, N.I.; RATGAUZ, G.L.

Development of penicillin-and streptomycin-resistant staphylococcal forms in chicken embryos. Antibiotiki 9 no.12:1077-1081 D '64.

(MIRA 18:7)

1. Kafedra mikrobiologii (zav. - prof. M.N.Lebedeva) I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

VOROPAYEVA, T.N.

PHASE I BOOK EXPLOITATION

SOV/5590

Konferentsiya po poverkhnostnym silam. Moscow, 1960.

Issledovaniya v oblasti poverkhnostnykh sil: sbornik dokladov na konferentsii po poverkhnostnym silam, april' 1960 g. (Studies in the Field of Surface Forces; Collection of Reports of the Conference on Surface Forces, Held in April 1960) Moscow, Izd-vo AN SSSR, 1961. 231 p. Errata printed on the inside of back cover. 2500 copies printed.

Sponsoring Agency: Institut fizicheskoy khimii Akademii nauk SSSR.

Resp. Ed.: B. V. Doryagin, Corresponding Member, Academy of Sciences USSR; Editorial Board: N. N. Zakhavayeva, N. A. Krotova, M. M. Kuzakov, S. V. Nerpin, P. S. Prokhorov, M. V. Talayov and G. I. Fuks; Ed. of Publishing House: A. L. Bankvitser; Tech. Ed.: Yu. V. Rylina.

PURPOSE: This book is intended for physical chemists.

Card 1/8

Studies in the Field of Surface Forces (Cont.)

SCV/5590

COVERAGE: This is a collection of 25 articles in physical chemistry on problems of surface phenomena investigated at or in association with the Laboratory of Surface Phenomena of the Institute of Physical Chemistry of the Academy of Sciences USSR. The first article provides a detailed chronological account of the Laboratory's work from the day of its establishment in 1935 to the present time. The remaining articles discuss general surface force problems, polymer adhesion, surface forces in thin liquid layers, surface phenomena in dispersed systems, and surface forces in aerosols. Names of scientists who have been or are now associated with the Laboratory of Surface Phenomena are listed with references to their past and present associations. Each article is accompanied by references.

TABLE OF CONTENTS:

Zakhavayeva, N. N. Twenty-Five Years of the Laboratory of Surface Phenomena of the IFKhan SSSR (Institute of Physical Chemistry of the Academy of Sciences USSR)

3

Card 2/8

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III. SURFACE FORCES IN THIN LAYERS OF LIQUIDS	
Akhmatov, A. S. Fundamental Law of Boundary Friction and Its Physical Basis	93
Fuks, G. I. Properties of Organic Acid Solutions in Hydrocarbon Liquids at the Surface of Solids	99
Tolstoy, D. M. Some Considerations on the Regularities of Friction of the First Order	113
Tolstoy, D. M., R. L. Kaplan, Lin Fu-sheng, P'an Pin-yao. New Experimental Data on External Friction	126
Deryagin, B. V., N. N. Zakhavayeva, S. V. Andreyev, A. A. Milovidov, A. M. Khomutov. Study of the Flow of Thin Layers of Polymer Solutions By the Cinematographic Method	139
Voropayeva, T. N., B. V. Deryagin, T. N. Kabanov. Effect of the Concentration of an Electrolyte on the Magnitude of the	
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IV. SURFACE PHENOMENA IN DISPERSION SYSTEMS		
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Nerpin, S. V., and B. V. Deryagin. Surface Phenomena in Soil Mechanics		156
Glazman, Yu. M. Theory of the Coagulation of Lyophobic Sols By Means of Electrolyte Mixtures		166
Deryagin, B. V., N. N. Zakhavayeva, and A. M. Lopatina. Investigating the Filtration of Electrolyte Solutions in High-Dispersion Powders		175
Kudryavtseva, N. M., and B. V. Deryagin. Investigating the Slow Coagulation of Hydrosols With a Flow Ultramicroscope		183
Card 6/8		

B/062/63/000/002/007/020  
B144/B186

**AUTHORS:** Voropayeva, T. E., Deryagin, B. V., and Kabanov, D. H.

**TITLE:** Determination of the points of zero charge by the method of crossed polarized metallic threads

**PERIODICAL:** Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 2, 1963, 257 - 263

**TEXT:** A new direct method is described for determining the points of zero charge in metals by measuring the force barrier preventing the contact of two polarized metal threads in an electrolyte. Two threads of Pt, Au, or Fe, 200 - 300  $\mu$  in diameter, were mounted orthogonally in a vessel in such a way that they could be brought into contact with the aid of a d-c motor. The vessel was partly filled with an electrolyte (KCl,  $MgSO_4$ ,  $H_2SO_4$ ). The metal threads could be polarized separately to any given potential by two Pt electrodes. The potential was measured using calomel with KCl solutions, and Hg- $Hg_2SO_4$  with  $MgSO_4$  and  $H_2SO_4$  solutions as reference electrodes. The potential difference of 0.01 v between the two threads was nullified at the moment of contact and the two threads were separated again automatically.  
Card 1/2

Determination of the points...

S/052/53/000/002/007/020  
B144/B186

The angle of rotation was measured with a photorelay. The value of the force barrier was recorded on an electronic potentiometer at the moment of contact. The points of zero charge correspond to the minimum or zero values of this force barrier, as is shown by measurements at different potentials. The force barrier determined for Pt threads in KCl solution showed a distinct minimum at  $0.20 \pm 0.01$  v in 0.001 KCl, which became flatter in 0.01 KCl and disappeared completely in 0.1 N KCl. The electrolytes used with gold threads were  $10^{-3}$  N KCl and  $3 \cdot 10^{-4}$  N  $\text{La}(\text{NO}_3)_3$ . In both cases the minimum was observed at 0.05 v. For Fe threads, the minimum of the force barrier in  $10^{-2}$  N NaOH (Fe is passive) was at 0.54 v, in  $3 \cdot 10^{-3}$  N and  $10^{-2}$  N HCl (Fe is active) at -0.4 v. There are 9 figures and 1 table.

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry of the Academy of Sciences USSR)

SUBMITTED: May 14, 1962

Card 2/2



VOROPAYEVA, V.G.

N/5  
651  
.461

POSOBIYE PO RASCHETU ANTENN SVERKH-  
VYSOKIKH CHASTOT /MANUAL ON COMPUTA-  
TIONS OF SUPER-HIGH FREQUENCIES, BY/  
A.I. ARDAB'YEVSKIY, A.I. ARDAB'YEVSKIY, I  
K.I. GRINEVA. MOSKVA, OBORONGIZ, 1957.  
70, / 2 / P. DIAGRS., TABLES.

AT HEAD OF TITLE: MOSCOW. AVIATION-  
NYI INSTITUT.

BIBLIOGRAPHIES AT THE END OF EACH  
CHAPTER.

VOOROPAYEVA, V.G.

ARDAB'YEVSKIY, A.I.; VOOROPAYEVA, V.G.; GRINEVA, K.I.; VISHNEVSKIY, A.Ya.,  
inzhener, redaktor; LATYININ, Ye.V., inzhener, zaveduyushchiy  
redaktsiei; SHEKHMAN, M.A., izdatel'skiy redaktor; KOZHIN, V.P.,  
tekhnicheskiiy redaktor.

[Manual on calculations for super-high frequency antennas] Posobie  
po raschetu antenn sverkhvysokikh chastot. Pod obshchei red.K.I.  
Grinevoi. Moskva, Gos.izd-vo obr.promyshl. 1957. 70 p.

(MLRA 10:4)

(Antennas (Electronics))

VOROPAYEVA, V.G.

108-9-11/11

AUTHOR: None Given

TITLE: New Books (Novyye knigi).

PERIODICAL: Radiotekhnika, 1957, Vol. 12, Nr 9, pp. 73-73 (USSR)

ABSTRACT: G. Z. Aysenberg. "Antennae for Ultrashort Waves", 1957, 699 pages price 21,65 roubles. Theory, computation methods, constructions, results of the investigations of basic antenna types for cm- and dm-waves.

Semi Conductor Devices and their Application. Collection of papers. Editorial office Ya. A. Fedotov, 1957, 396 pages, price 11,- roubles.

G. F. Storm "Magnetic Amplifiers". Translation from English, 1957, 568 pages, price 24,20 roubles.

S. Gol'dman "Information Theory". Translation from English, 1957, 446 pages, price 17,10 roubles.

S. Uaytkhed. Breakdown of hard dielectrics. Translation, 1957, 270 pages, Price 9,75 roubles.

Card 1/2

New Books

108-9-11/11

Ardab'yevskiy, A. I., Voropayeva, V. G., Grineva, K. I.  
Handbook for Computations of High-Frequency Antennae, 1957,  
72 pages, price 1,50 rouble.

AVAILABLE: Library of Congress

Card 2/2

BIRILOV, O.; VOROPAYEVA, V., -starshiy nauchnyy sotrudnik

Laying keramzit-concrete floors in livestock buildings. Sel'.  
stroitel. [1.e.16] no.3:12-13 Mr '62. (MIRA 15:7)

1. Glavnyy inzhener sektora stroitel'nykh materialov Krasnodarskogo  
filiala Nauchno-issledovatel'skogo instituta sel'skogo  
stroitel'stva (for Birilov).  
(Floors, Concrete)

VOROPAYEVA, V.G.

Experimental study of surface wave antennas with radiation field resulting from the transverse curvature of directing wave guides. Izv. vys. ucheb. zav.; radiotekh. 5 no.3:314-320 My-Je '62. (MIRA 15:9)

1. Rekomendovana kafedroy Moskovskogo ordena Lenina aviatsionnogo instituta imeni Sergo Ordzhonikidze.

(Wave guides)  
(Antennas (Electronics))

VOROPAYEVA, Z. Ye., Cand. Agri. Sci. (diss) "Physicoal-chemical Properties of Soils and Groundwater Systems on Rice Fields and Adjoining Areas in Rostov Oblast," Novocherkassk, 1961, 15 pp (South Sci. Res. Inst. Hydrotechnique and Reclamation) 150 copies (KL Supp 12-61, 279).

VOROPINOV, S.V.; CHARUSHIN, G.V.

Unusual buried frozen dislocations in the Azeyka brown coal  
deposit (Irkutsk Province). Geol. i geofiz. no.8:43-50 '60.  
(MIRA 14:2)

1. Vostochno-Sibirskiy geologicheskii institut Sibirskogo  
otdeleniya AN SSSR.  
(Irkutsk Province—Geology, Structural)



VOROPINOV, V.S.; KENZINA, V.L.; ODINTSOV, M.M., otv. red.; KARASEV,  
I.P., red.; KUZNETSOV, M.F., red.; MANDEL'BAUM, M.M., red.;  
NEZABYTOVSKAYA, I.A., red.; NOSEK, A.V., red.; FOMIN, N.I.,  
red.

[Geological studies of the U.S.S.R.] Geologicheskaya izu-  
chennost' SSSR. Moskva, Nauka. Vol.24. No.1. 1965. 177 p.  
(MIRA 18:9)

VOROPINOV, V.S.

Morphology and geology of the underwater slope of the southern part of Lake Baikal between Slyudyanka and Mysovaya. Geol. i geofiz. no.8:28-37 '65. (MIRA 18:9)

1. Institut zemnoy kory Sibirskogo otdeleniya AN SSSR, Irkutsk.

VOROPINOV, V.S.

Stratigraphy of the upper Cambrian of the Lena-Angara-Oka  
interfluve. Geol.i geofiz. no.8:18-27 '61. (MIRA 14:9)

1. Vostochno-Sibirskiy geologicheskiy institut Sibirskogo  
otdeleniya AN SSSR, Irkutsk.  
(Lena Valley--Geology, Stratigraphic)  
(Angara Valley--Geology, Stratigraphic)

VOROPINOV, V. S.

Gravitational and disjunctive dislocations in Tertiary sediments on the bottom of Lake Baikal along the southeastern bank. Trudy VSIGI SO AN SSSR no.3:26-34 '61.

(MIRA 15:10)

(Baikal, Lake—Geology, Structural)

VOROPINOV, V.S.

Comparing cross sections of the Verkholenskian stage in the southern part of the Siberian Platform. Izv. vost.fil.AN SSSR no.6:3-18 '57.

(MLRA 10:9)

1. Vostochno-Sibirskiy filial Akademii nauk SSSR.

(Siberian Platform--Geology, Structural)

AUTHOR: Voropinov, V. S.

20-114-6-42/54

TITLE: The First Finds of Fauna in the Verkholenskaya Series  
(Pervyye nakhodki fauny v Verkholenskoy svite)

PERIODICAL: Doklady AN SSSR, 1957, Vol. 114, Nr 6, pp. 1291-1293  
(USSR)

ABSTRACT: The multicolored series of the layers conditionally designated as Upper Cambrian, which is widely spread in the South of the Sibirskaya platforma (Siberian platform), until 1954 was considered as faunally not characterized, as no organic remains were found in the mighty masses of red rocks. Outside the amphitheater of Irkutsk a scarce fauna with Lingula, Obolus, hooded gastropods and algae was found (reference 3). Then Vologdin and Korde (reference 1) found small-columned stromatolites with well marked microstructure in great variety among the Ordovician layers with Angarella on the Angara-river in the uppermost part of the Upper Cambrian. Beside cyanophydeae moss-animals (Bryozoa) were found as well as the oldest representatives of the cephalopods from the group of mixochoanites. In 1953 finally M. A.

Card 1/4

The First Finds of Fauna in the Verkholensk Series

20-114-6-42/54

Tsakhnovskiy found a new genus of trilobites (related to the Upper Cambrian Crepicephalus Owen) on the river Podkamennaya Tunguska. The author characterizes the cross section of the multicolored mass and the masses in contact with it in the interfluvial region Leno-Angaro-Okinskoye. The following ceposits occur there: Ordovician, Ust'kutskaya-suite ( $O_1$ ). Light sand- and lime-stones with algae, gastropods and brachiopods, on the Lena river lead-bearing, 200-300 m thick. Upper Cambrian. Verholenskaya-suite ( $Cm_3$ ). It consists of the following subgroups and horizons: Upper sandmarl-lime-subgroup ( $Cm_3$ ). Kardinskiy horizon, 30-180 m thick. Central subgroup, predominantly consisting of sandstone ( $Cm_3$ ). Ryutinskiy horizon ( $Cm_3^a$ ), 90-130 m thick. Mikhaylovskiy horizon ( $Cm_3^b$ ), 70-180 m thick. Ust'al'kinskiy horizon, 30-70 m thick. Lower gypsum-marl-subgroup ( $Cm_3$ ), 100-200 m thick. Middle Cambrian ( $Cm_2$ ). Variegated horizon ( $Cm_2^{1-2}$ ), 0-50 m thick. The fauna of the Verkholenskaya-series contains relatively manifold groups. Weathered impressions of Arthropoda were found between Kachug and the harbor of Osetrovo in the Ust'al'kinskiy (?) horizon. According to N. I. Novozhilov they belong to those similar to Merostom, namely to the

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forms which are similar to the genus Yohoin Walcott (family Yohoiidae Henriksen, order Opabinida Stromer) (reference 6). The animals were spindle-shaped, of various size (figure 1). In the same year, 1955, well preserved remains of the same type were found in the Mikhaylovskiy horizon on the Angara river (figure 1). A rest from the Ryutinskiy-horizon probably also belongs here (figure 2). Trilobites were found in the Kardinskiy-horizon, 40 m below the contact with the Ordovician. Furthermore mud-eaters from several horizons, and algae are known in the Verkholenskaya-series. From the same series 13 types of spores are known. Thus quite a substantial fauna and flora existed here. As they were not yet sufficiently studied, it is not possible to make a division of the variegated series according to them. It may only be assumed that the lower parts of the Verkholenskaya series will prove to be Upper instead of Middle Cambrian.

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